

### ABSTRACT OF THE DISCLOSURE

A semiconductor device in which a reduction in size and thinness are realized is provided. The semiconductor device of the present invention can realize a reduction in size by forming light emitting elements as a light source, and photodiodes as photoelectric conversion elements on the same substrate. Further, it becomes possible to control two signal lines by using one driver circuit with using an output switching circuit. As a result, it becomes possible to reduce the area occupied by the driver circuits of the semiconductor device, and the semiconductor device can be made smaller.